

What is claimed is:

1. An in-wheel motor system having a hollow direct drive motor which is provided in a wheel and whose stator side is supported to a part around the wheel of a vehicle by elastic bodies and/or an attenuation mechanism, wherein

a motor rotor and a wheel or a hub are interconnected by a coupling mechanism which comprises a motor-side plate connected to a rotating side case of the motor, a wheel-side plate connected to the wheel or hub, an intermediate plate interposed between the two plates, and first and second connection members for interconnecting the motor-side plate and the intermediate plate and interconnecting the intermediate plate and the wheel-side plate in such a manner that the interconnected plates can move relative to each other in a direction where the stiffness of the connection members themselves is low, the first and second connection members being arranged such that the directions where they have low stiffness become orthogonal to each other.

2. The in-wheel motor system according to claim 1, wherein at least one pair of either one or both of the first and second connection members are provided, and the paired connection members are arranged at positions where they become symmetrical to the center line of the

plane of the plates.

3. The in-wheel motor system according to claim 1 or 2, wherein the first and second connection members are made of rubber or resin whose length in the connection direction is larger than the length in the direction orthogonal to the connection direction.

4. The in-wheel motor system according to claim 1 or 2, wherein pin members are provided on the opposed surfaces of the motor-side plate and the intermediate plate on the opposed surfaces of the intermediate plate and the wheel-side plate interconnected by a steel cord or steel wire.

5. The in-wheel motor system according to any one of claims 1 to 4, wherein the first and second connection members are attached to the respective plates through a bearing or rubber bush.

6. The in-wheel motor system according to any one of claims 1 to 5, wherein the first and second connection members are attached to the respective plates while they are compressed in the connection direction.